

Transformation Protocol

- 1) Take competent E.coli cells from -80C freezer. Place on ice.
- 2) Turn on water bath to 42C.
- 3) Add ~100 ng of DNA into E.coli cells.
- 4) Incubate on ice for 10-20 min. to thaw competent cells.
- 5) Put tube into water bath at 42C for 45 seconds.
- 6) Put tube back on ice for 2 minutes to reduce damage to the E.coli cells.
- 7) Add 1 ml of LB (with no antibiotics!). Incubate tube for 1 hour at 37C.
- 8) Spread about 100-200 ul of the resulting culture on LB plates (with appropriate antibiotic added!)
- 9) Grow overnight in 37C and pick colonies about **12-16 hours** later.